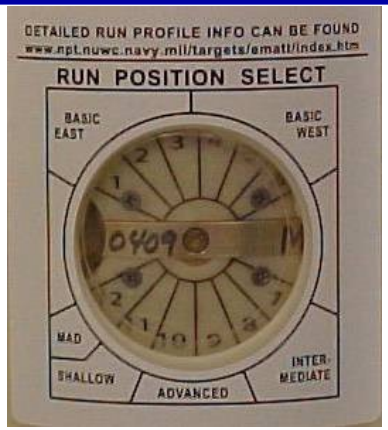
EMATT MK39 Mod 2 - Operation Instructions

OPERATIONAL DEPLOYMENT

•The MK39 Expendable Mobile ASW Training Target may be easily deployed from Surface Ships or ASW Aircraft. For Ship launch and Over The Side (OTS) Hover launch, the EMATT must be removed from its sonobuoy launch container and stripped of its Air Launch packaging gear **PRIOR** to launch.

RUN SELECT INSTRUCTION



•Select Desired Run Profile by Rotating Switch with a 1/4" Flat Blade Screwdriver **(Fully Counter-Clock-wise Position One).** Then, Count Each Position Clockwise until Desired Profile is Chosen. **(Fully Clockwise is Position 12).**

•**CAUTION: DO NOT** Puncture or Tear SLC Window Prior to Launch.

AIR LAUNCH PARAMETERS

AIRFRAME	AIRSPEED		ALTITUDE	
	MAX	MIN	MAX	MIN
S-3/P3	200 KTS	•	10,000 FT	500 FT
SH-60B/SH-2	100 KTS	40 KTS	10,000 FT	500 FT
SH-60F				
	HOVER		20 ± 5FT	

•Deployment From Minimum Safe Airspeed Note: Minimum Deployment Depth is 100 Feet or 50 Feet Deeper Than Maximum Programmed Depth.

AIR LAUNCH INSTRUCTIONS

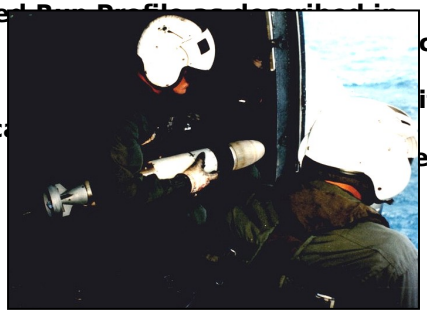
P-3 / S-3 / SH-60B / SH-2

•Loading and Launch of the EMATT is Identical to that of an "A" Size Sonobuoy.
•Grey nickel coating on the EMATT SLC may cause increased friction in launch tube, verify SLC locks into place. Wash hands thoroughly after handling SLC.

SH-60F Over The Side (OTS) HOVER LAUNCH PROCEDURE

•**CAUTION: DO NOT** use the aircraft sonobuoy launch system for MK39 EMATT.
•**WARNING:** Crewman shall be properly secured in an approved restraint system to perform OTS Hover Launch.

1. Remove Air Launch Gear as described in EMATT Surface Ship Launch Instructions, Section 1 thru 4.
2. Launch Altitude for OTS Hover Launch shall be 20 ± 5 feet.
3. Set the desired Run Profile as described in ction



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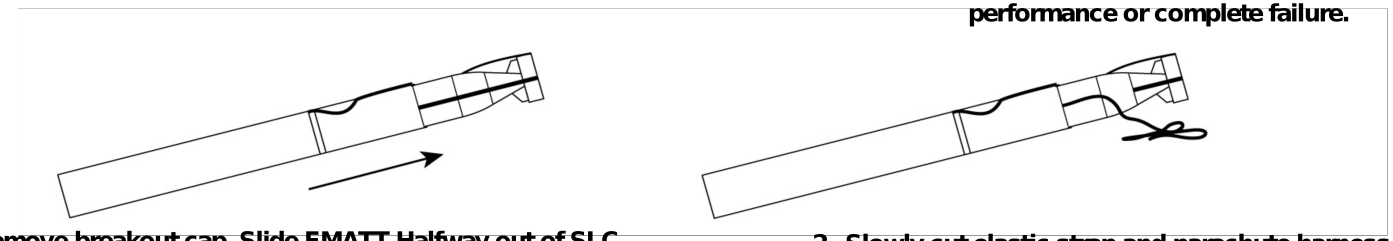
Ship Launch Instructions

CAUTION: Keep hands and loose material free of propeller.

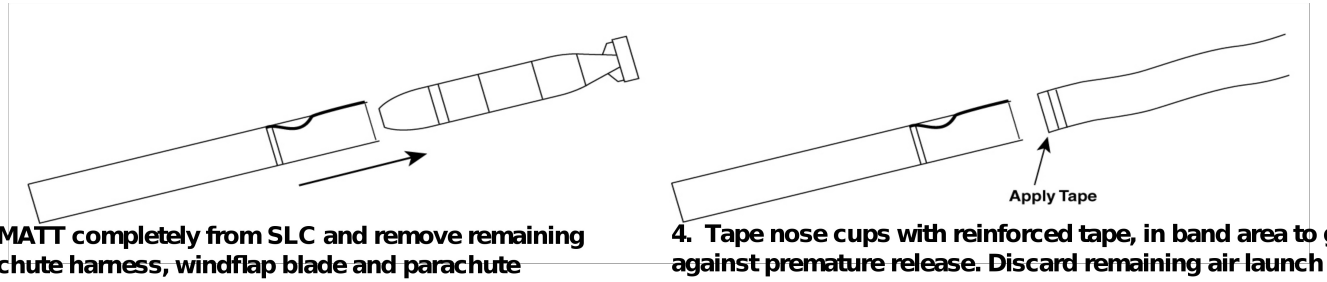
Ships speed should be 5knots

CAUTION: Removing EMATT from SLC is a two man Operation. Damage to the EMATT tail section may occur if EMATT is mishandled, resulting in degraded performance or complete failure.



1. Remove breakout cap. Slide EMATT Halfway out of SLC.
   CAUTION: Windflap blade is spring loaded.

2. Slowly cut elastic strap and parachute harness approximately 460mm from tail of unit.



3. Remove EMATT completely from SLC and remove remaining piece of parachute harness, windflap blade and parachute assembly. Discard excess material.

4. Tape nose cups with reinforced tape, in band area to guard against premature release. Discard remaining air launch components. **CAUTION:** Spring steel band located on air launch nose cup. **DO NOT** depress piston.

5. The EMATT may be launched from a ship's deck by gently releasing the EMATT into the water, nose first at a 45 degree downward angle. For NIXIE hatch launch, the EMATT must be reinstalled in the SLC nose first so that when the EMATT slides out of the SLC it is tail first. Extreme care is required to avoid damage to the shroud ring. The SLC containing the EMATT is inserted into the NIXIE tube, and the EMATT is allowed to slide through the tube into the water. For VDS hatch launch, hold EMATT by its shroud ring with the MAD cavity facing up. Extend the EMATT out of the hatch so it is as close as possible to the water. Once in position gently release the vehicle into the water.

Note: to avoid accidental release of the SLC during NIXIE launch a tape handle is recommended

CAUTION: Lithium Batteries Contained in Equipment.
UN 3091, Class 9.
DO NOT Puncture, Crush, or Heat.